

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/003232**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 F16L 41/04**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16L 41/00, 41/08, A01G 25/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR, JP : IPC as aboveElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
branch, hose, tube, coupling, adapter, inlet, outlet, packing, locking, groove**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP-A-2003-329187 (2003. 11. 19.)	1, 4-8, 20, 21, 23, 25, 27, 29, 33, 34, 36, 38, 40, 42, 46
Y	JP-A-2003-240182 (2003. 8. 27.)	1, 4-8, 20, 21, 23, 25, 27, 29, 33, 34, 36, 38, 40, 42, 46
Y	KR-Y1-20-188526 (2000. 7. 15.)	1, 4-8, 20, 21, 23, 25, 27, 29, 33, 34, 36, 38, 40, 42, 46
Y	KR-Y1-20-275929 (2002. 5. 18.)	1, 4-8, 20, 21, 23, 25, 27, 29, 33, 34, 36, 38, 40, 42, 46
A	D1 : KR-U-2000-18588 (2000. 10. 25.)	1-53
A	D2 : KR-A-2002-27404 (2002. 4. 13.)	1-53
A	D3 : KR-A-2002-43517 (2002. 6. 10.)	1-53

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed


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- "&" document member of the same patent family

Date of the actual completion of the international search  
08 APRIL 2005 (08.04.2005)

Date of mailing of the international search report

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2004/003232

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP-A-2003-329187	2003. 11. 19.	None	
JP-A-2003-240182	2003. 8. 27.	None	
KR-Y1-20-188526	2000. 7. 15.	None	
KR-Y1-20-275929	2002. 5. 18.	None	
KR-U-2000-18588	2000. 10. 25.	None	
KR-A-2002-27404	2002. 4. 13.	None	
KR-A-2002-43517	2002. 6. 10.	None	